2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Lunenburg

STREAM NAME: Middle Meherrin River

HYDROLOGIC UNIT: 03010204

SEGMENT ID.: VAP-K01R_MMR01A98 **TMDL MAP ID:** VAP-K01R-01

SEGMENT SIZE: 7.14 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Crupper Run

RIVER MILE: 6.70

LATITUDE: 39.90250 **LONGTITUDE:** -78.37940

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 36.85050 **LONGTITUDE:** -78.33800

Middle Meherrin River from Crupper Run to its mouth at the Meherrin River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Swimmable Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Fecal Coliform	Unknown

SUMMARY:

The segment was originally listed as fully supporting but threatened of the swimmable use support goal on the 1998 303(d) list because of fecal coliform violations at the Route 634 bridge (5AMMR000.69). During the year 2002 cycle, the fecal coliform violation rate was only 2/27, therefore the segment should be removed from the 303(d) list.

The source of the fecal coliform violations in this segment is considered unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Brunswick

STREAM NAME: Meherrin River

HYDROLOGIC UNIT: 03010204

SEGMENT ID.: VAP-K05R_MHN01B98 **TMDL MAP ID:** VAP-K05R-01

SEGMENT SIZE: 17.08 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Taylors Creek

RIVER MILE: 89.06

LATITUDE: 36.75320 **LONGTITUDE:** -77.99600

DOWNSTREAM LIMIT:

DESCRIPTION: Great Creek

RIVER MILE: 71.55

LATITUDE: 36.71560 **LONGTITUDE:** -77.79360

Meherrin River from Taylors Creek downstream to Great Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Chlordane	Unknown

SUMMARY:

The Meherrin River from Taylors Creek to Great Creek was assessed fully supporting but threatened of the Aquatic Life use support goal based on an exceedance of the NOAA ER-M screening value for chlordane in sediment at 5AMHN083.48 in 1996.

Additional sediment sample collected 1997 at 5AMHN087.66 did not indicate exceedance.

Sediment contamination source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Brunswick

STREAM NAME: Great Creek

HYDROLOGIC UNIT: 03010204

SEGMENT ID.: VAP-K06R_GTC05B00 **TMDL MAP ID:** VAP-K06R-03

SEGMENT SIZE: 7.6 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Great Creek Reservoir Dam

RIVER MILE: 7.60

LATITUDE: 36.75790 **LONGTITUDE:** -77.87260

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 36.71560 **LONGTITUDE:** -77.79360

Great Creek from the Great Creek Reservoir Dam downstream to its mouth at the Meherrin River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Swimmable Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fecal Coliform	Unknown

SUMMARY:

The segment was initially listed in 1998 as fully supporting but threatened based on fecal coliform violations at 5AGTC005.40 and the results of assessments in adjacent watersheds. The segment was later included on EPA's list of "Waters Identified to Virginia for Listing Consideration During Development of the Next List". Fecal coliform was the parameter of concern.

In the year 2002 assessment, there were only 2 violations of the fecal coliform standard in 25 samples. Therefore, the segment should be delisted.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Greensville

STREAM NAME: Meherrin River

HYDROLOGIC UNIT: 03010204

SEGMENT ID.: VAP-K09R_MHN01D98 **TMDL MAP ID:** VAP-K09R-01

SEGMENT SIZE: 5.72 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Emporia Reservoir Dam

RIVER MILE: 53.44

LATITUDE: 36.69580 **LONGTITUDE:** -77.55720

DOWNSTREAM LIMIT:

DESCRIPTION: Caney Branch

RIVER MILE: 47.70

LATITUDE: 36.67130 **LONGTITUDE:** -77.49250

The Meherrin River from the Emporia Reservoir Dam to a point about 5 miles downstream.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Dissolved Oxygen	Hypolimnetic Release
Fecal Coliform	Unknown
Fish Tissue - Arsenic & Benzo(k) fluoranthene	

SUMMARY:

The Meherrin River is subject to dissolved oxygen violations during summer months below the Emporia Reservoir dam as measured at the Route 302 bridge (5AMHN052.34) and verified during a special study conducted in July 1994. The segment was initially listed during the 1998 cycle as fully supporting but threatened of the Aquatic Life use support goal.

In the year 2002 cycle, The segment is assessed partially supporting of the Swimmable Use support goal based on a fecal coliform violation rate of 12/59 at 5AMHN052.34.

Beginning in the year 2002 cycle, the segment was assessed partially supporting of the fish consumption use based on 1996 fish tissue screening value exceedances for benzo(k)fluoranthene and arsenic in two species.

Hypolimnetic waters releases through the Emporia Reservoir Dam.

The fecal coliform source is unknown.

The source(s) of the arsenic and benzo(k)fluoranthene are considered unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Sussex

STREAM NAME: Nottoway River

HYDROLOGIC UNIT: 03010201

SEGMENT ID.: VAP-K19R_NTW01A00 **TMDL MAP ID:** VAP-K19R-02

SEGMENT SIZE: 5 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Hardwood Creek

RIVER MILE:

LATITUDE: 36.85220 **LONGTITUDE:** -77.57700

DOWNSTREAM LIMIT:

DESCRIPTION: Town of Jarratt's PWS intake

RIVER MILE:

LATITUDE: 36.84780 **LONGTITUDE:** -77.49350

Nottoway River from the Town of Jarratt's PWS intake upstream to the confluence with Hardwood Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fish Tissue - Arsenic, benzo(k)fluoranthene	Unknown

SUMMARY:

Arsenic in 2 species and benzo(k)fluoranthene in 1 species in 1996

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Sussex

STREAM NAME: Nebletts Mill Run, UT

HYDROLOGIC UNIT: 03010201

SEGMENT ID.: VAP-K23R_XDV01A02 **TMDL MAP ID:** VAP-K23R-04

SEGMENT SIZE: 1.73 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 1.73

LATITUDE: 36.97680 **LONGTITUDE:** -77.19080

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Nebletts Mill Run

RIVER MILE: 0.00

LATITUDE: 36.97080 **LONGTITUDE:** -77.21240

Unnamed tributary of Nebletts Mill Run from its headwaters to its mouth

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Phosphorus	Unknown

SUMMARY:

This unnamed tributary is considered fully supporting but threatened of the Aquatic Life use based on a Total Phosphorus screening value exceedance rate of 8/9 at 5AXDV000.46, a confined animal feeding operation special study station downstream of Smithfield Carroll's farm #19

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Sussex

STREAM NAME: Hunting Quarter Swamp

HYDROLOGIC UNIT: 03010201

SEGMENT ID.: VAP-K24R_HQC01A98 **TMDL MAP ID:** VAP-K24R-01

SEGMENT SIZE: 15.93 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 15.70

LATITUDE: 36.87520 **LONGTITUDE:** -77.38910

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth

RIVER MILE: 0.00

LATITUDE: 36.86200 **LONGTITUDE:** -77.19160

Hunting Quarter Swamp from its headwaters to its mouth at the Nottoway River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Dissolved Oxygen	Natural Conditions
pH	

SUMMARY:

The segment was evaluated as fully supporting but threatened of the Aquatic Life Use support goal during the 1998 cycle based on best professional judgement. Because of its hydrological characteristics, Hunting Quarter Swamp is believed to be subject to the same dissolved oxygen and pH characteristics as other swampwaters assessed less than fully supporting of this use support goal.

The threatened designation in this segment is attributed to natural swampwater conditions. Targeted monitoring is recommended to verify the judgmental evaluation.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Sussex, Greensville

STREAM NAME: Otterdam Swamp, Three Creek

HYDROLOGIC UNIT: 03010201

SEGMENT ID.: VAP-K26R_TRE01B98 **TMDL MAP ID:** VAP-K26R-01

SEGMENT SIZE: 19.16 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Hickory Swamp

RIVER MILE: 4.80

LATITUDE: 36.74480 **LONGTITUDE:** -77.53030

DOWNSTREAM LIMIT:

DESCRIPTION: Browns Branch

RIVER MILE: 20.5

LATITUDE: 36.69740 **LONGTITUDE:** -77.38250

Otterdam Swamp from Hickory Swamp to its mouth, and Three Creek from the Slagles Lake Dam downstream to Browns Branch.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Dissolved Oxygen	Hypolimnetic Waters
	Natural Conditions

SUMMARY:

Otterdam Swamp from Hickory Swamp to its mouth, and Three Creek from Otterdam Swamp to Browns Branch were assessed not supporting of the Aquatic Life use support goal based on a dissolved oxygen violation rate of 8/27 and a pH violation rate of 4/27 at 5ATRE026.75 (Route 611 bridge), as well as the results of a 1994 special study:

DO 1/1 at 5AOTD008.23 (Route 610 bridge);
DO 2/2 at 5AOTD004.31 (Route 609 bridge).

Three Creek from Slagles Lake Dam downstream to Otterdam Swamp was assessed as threatened based on the same special study:
DO 1/2 at 5ATRE031.85 (Route 616 bridge)
DO 1/2 at 5ATRE033.87 (Route 617 bridge).

During summertime low flow conditions, when there is no flow over Slagles Lake dam, hypolimnetic waters seepage occurs under the dam. Additional flow from downstream sources is suspected to further depress DO levels upstream of the Route 616 bridge. The Three Creek STP discharges upstream at the Route 616 bridge, and is predicted to have an impact on DO levels in Three Creek below the discharge.

The DO violations recorded at the Route 611 bridge monitoring station are attributed to natural conditions.

Targeted monitoring during low flow conditions is recommended to determine the extent of DO depletion when there is no water being released over Slagles Lake dam. Targeted monitoring and wetland delineation may be necessary to identify the limits of the segment affected by natural conditions.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Southampton

STREAM NAME: Blackwater River

HYDROLOGIC UNIT: 03010202

SEGMENT ID.: VAT-K36R_BLW01B00 t **TMDL MAP ID:** VAT-K36R-05

SEGMENT SIZE: 27.84 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at abandoned RR crossing SE of Burdette (RM BLW027.84).

RIVER MILE: 27.84

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at end of Blackwater River in Virginia, VA/NC state line.

RIVER MILE: 0.00

LATITUDE: **LONGTITUDE:**

Segment begins at abandoned RR crossing SE of Burdette (RM BLW027.84) to end of Blackwater R.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrient Enriched Waters designation	Unknown

SUMMARY:

Designated a Nutrient Enriched Water in DEQ's Water Quality Standards.

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Southampton

STREAM NAME: Nottoway River

HYDROLOGIC UNIT: 03010201

SEGMENT ID.: VAT-K28R_NTW01B00 **TMDL MAP ID:** VAT-K28R-01

SEGMENT SIZE: 27 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at Courtland (RM NTW027.00) at the N & W RR crossing.

RIVER MILE: 27.00

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at terminus of Nottoway R. at confluence with Blackwater R.

RIVER MILE: 0.00

LATITUDE: **LONGTITUDE:**

Segment begins at Courtland (RM NTW027.00, N & W RR) downstream to end of Nottoway R.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrient Enriched Waters designation	Unknown

SUMMARY:

Designated a Nutrient Enriched Water in DEQ's Water Quality Standards.

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Southampton

STREAM NAME: Darden Mill Run

HYDROLOGIC UNIT: 03010201

SEGMENT ID.: VAT-K30R_DMR01A00 **TMDL MAP ID:** VAT-K30R-01

SEGMENT SIZE: 9.59 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the headwaters of Darden Mill Run.

RIVER MILE: 9.59

LATITUDE: 36.54420 **LONGTITUDE:** -77.00620

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at the VA/NC state line.

RIVER MILE: 0.00

LATITUDE: 36.62160 **LONGTITUDE:** -77.14380

Segment extends the length of Darden Mill Run, headwaters to VA/NC state line.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total Phosphorus	Natural Conditions

SUMMARY:

Violations of the standard for Dissolved Oxygen recorded at station (5ADMR008.42) on Darden Mill Run to assess this segment as partially supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Exceedance of the nutrient screening value for TP at the above station, using BPJ, to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the D.O. standard violation and elevated total phosphorus are attributed to naturally occurring conditions.

The source of the impairment is attributed to naturally occurring conditions.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Southampton

STREAM NAME: Nottoway River (Lower)

HYDROLOGIC UNIT: 03010201

SEGMENT ID.: VAT-K30R_NTW01C00 **TMDL MAP ID:** VAT-K30R-02

SEGMENT SIZE: 2.71 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Segment begins 1.1 mi. downstream Rt 258 (General Vaughn bridge) crossing of Nottoway River.

RIVER MILE: 2.71

LATITUDE: 36.56970 **LONGTITUDE:** -76.93600

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at point where Nottoway River crosses the Virginia/North Carolina state line.

RIVER MILE: 0.00

LATITUDE: 36.54370 **LONGTITUDE:** -76.92130

Segment begins 1.1 mi. downstream Rt 258 bridge to NC state line.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Arsenic, PAHs & dibenz(a,h)anthracene	Unknown

SUMMARY:

Data collected for the toxics indicated they exceeded the screening values. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the presence of impairment will be based on a fish consumption advisory being issued by the VDH.

The cause of the elevated arsenic, total PAHs and Dibenz(ah)anthracene concentrations is currently unknown.

The Nottoway River monitoring station for fish tissue (5ANTW000.98) is located in Southampton County. The land use in the watershed is mixed agricultural and forested. The watershed potentially receives inputs from wetlands areas and storm water runoff associated with the surrounding forested/agricultural area. The specific source of the elevated toxic organic compounds concentration is currently unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Southampton

STREAM NAME: Nottoway River (Middle)

HYDROLOGIC UNIT: 03010201

SEGMENT ID.: VAT-K30R_NTW01B00 **TMDL MAP ID:** VAT-K30R-03

SEGMENT SIZE: 5.99 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Segment begins between Round & Simms Guts.

RIVER MILE: 2.71

LATITUDE: 36.56970 **LONGTITUDE:** -76.93600

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at point 1.16 mi below General Vaughan Bridge.

RIVER MILE: 8.70

LATITUDE: 36.54370 **LONGTITUDE:** -76.92130

Between Round&Simms Gut downstream to 1.16 mi below Gen. Vaughan Bridge.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Indeno(1,2,3-cd)pyrene & Dioxin	Unknown

SUMMARY:

Data collected for the toxics indicated they exceeded the screening values. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the presence of impairment will be based on a fish consumption advisory being issued by the VDH.

The cause of the elevated Indeno(1,2,3-cd)pyrene & Dioxin concentrations is currently unknown.

The Nottoway River monitoring station for fish tissue (5ANTW000.98) is located in Southampton County. The land use in the watershed is mixed agricultural and forested. The watershed potentially receives inputs from wetlands areas and storm water runoff associated with the surrounding forested/agricultural area. The specific source of the elevated toxic organic compounds concentration is currently unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Surry

STREAM NAME: Johnchecohunk Swamp

HYDROLOGIC UNIT: 03010202

SEGMENT ID.: VAP-K32R_JCH01A98 **TMDL MAP ID:** VAP-K32R-07

SEGMENT SIZE: 8.39 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters

RIVER MILE: 7.90

LATITUDE: 37.12840 **LONGTITUDE:** -77.02240

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Cypress Swamp

RIVER MILE: 0.00

LATITUDE: 37.07400 **LONGTITUDE:** -76.91750

Mainstem from its headwaters to its mouth.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Dissolved Oxygen	Natural Conditions
pH	

SUMMARY:

The segment was assessed fully supporting but threatened of the Aquatic Life during the 1998 cycle. The station was sampled during 1994-1995.

Suspected to be caused by natural swampwater conditions throughout the watershed.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Isle of Wight

STREAM NAME: Blackwater River (Upper)

HYDROLOGIC UNIT: 03010202

SEGMENT ID.: VAT-K33R_BLW01A00 **TMDL MAP ID:** VAT-K33R-02

SEGMENT SIZE: 11.84 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the Route 620 crossing of the Blackwater River.

RIVER MILE: 47.06

LATITUDE: 36.90560 **LONGTITUDE:** -76.81690

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at the confluence with Antioch Swamp.

RIVER MILE: 35.22

LATITUDE: 36.83070 **LONGTITUDE:** -76.85690

Segment from Rt 620 crossing downstream to confluence with Antioch Swamp.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Sediments - Organics	Unknown

SUMMARY:

Data collected for the chrysene & PAHs in sediment indicated exceedance of the screening value. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause of the elevated chrysene & PAHs concentrations are currently unknown.

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Sussex

STREAM NAME: Seacock Swamp (Upper)

HYDROLOGIC UNIT: 03010202

SEGMENT ID.: VAT-K35R_SCK01A00 **TMDL MAP ID:** VAT-K35R-01

SEGMENT SIZE: 0.8 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the spillway of Drumwright Pond, near Wakefield.

RIVER MILE: 19.35

LATITUDE: 36.95600 **LONGTITUDE:** -77.00090

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at the confluence with an unnamed tributary, approx. 0.1 mi. downstream of Rt 628.

RIVER MILE: 18.55

LATITUDE: 36.95410 **LONGTITUDE:** -76.98950

Drumwright Pond downstream to confluence with UT, 0.1 mi. downstream Rt 628.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total Phosphorus	Natural Conditions
Total Phosphorus	

SUMMARY:

Violations of water quality standards for Dissolved Oxygen and pH were recorded at DEQ's ambient water quality monitoring station on Seacock Swamp (5ASCK018.65) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Exceedance of the nutrient screening value for total phosphorus at the above monitoring station is used to justify use of Best Professional Judgement to evaluate this segment as threatened of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report. The cause of the standard violation is attributed to naturally occurring conditions.

The source of the impairment is attributed to naturally occurring conditions.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Southampton, Suffolk, City of

STREAM NAME: Blackwater River

HYDROLOGIC UNIT: 03010202

SEGMENT ID.: VAT-K36R_BLW01E00 **TMDL MAP ID:** VAT-K36R-04

SEGMENT SIZE: 2.44 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the confluence of UT S.W. of Cherry Grove.

RIVER MILE: 2.44

LATITUDE: 36.56910 **LONGTITUDE:** -76.92780

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at the VA/NC state line intersection with the Blackwater River.

RIVER MILE: 0.00

LATITUDE: 36.54420 **LONGTITUDE:** -76.91630

Segment from confluence of UT S.W. of Cherry Grove to VA/NC state line.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total PAHs and benz(a)anthracene	Unknown

SUMMARY:

There is insufficient monitoring data for toxics in fish tissue recorded at DEQ's ambient water quality monitoring stations to assess this segment for the Clean Water Act's Fish Consumption Use Support Goal. Data collected for the toxics indicated they exceeded the screening values. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The determination of the presence of impairment will be based on a fish consumption advisory being issued by the VDH.

The cause of the elevated PAHs and Benz(a)anthracene concentrations is currently unknown.

The Blackwater River monitoring station for fish tissue (5ABLW000.60) is located at the border of Isle of Wight and Southampton Counties. The land use in the watershed is mixed agricultural and forested. The watershed potentially receives inputs from wetlands areas and storm water runoff associated with the surrounding forested/agricultural area. The specific source of the elevated toxic organic compounds concentration is currently unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Southampton, Isle of Wight

STREAM NAME: Blackwater River

HYDROLOGIC UNIT: 03010202

SEGMENT ID.: VAT-K36R_BLW01B00 **TMDL MAP ID:** VAT-K36R-06

SEGMENT SIZE: 10 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Upstream 5.00 mi. from station 5ABLW022.84 @ Rt. 611 crossing at Joyners Br.

RIVER MILE: 27.84

LATITUDE: 36.76370 **LONGTITUDE:** -76.90080

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream 5.00 mi. from station 5ABLW022.84 @ Rt. 611 crossing at Joyners Br.

RIVER MILE: 17.84

LATITUDE: 36.69940 **LONGTITUDE:** -76.91880

Segment extends up and downstream 5.00 mi. from station at Joyners Bridge.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nickel	Unknown
PAHs	

SUMMARY:

Data collected for the toxic metal nickel in sediment indicated exceedance of the screening value. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Data collected for the toxic organic PAHs in fish tissue indicated exceedance of the screening value. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report.

The cause of the elevated sediment nickel metal and fish tissue PAHs concentration is currently unknown.

The source of the sediment nickel and fish tissue PAHs are unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Chesapeake, City of

STREAM NAME: Indian Creek

HYDROLOGIC UNIT: 03010205

SEGMENT ID.: VAT-K40R_IND01A00 **TMDL MAP ID:** VAT-K40R-01

SEGMENT SIZE: 3.48 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the Saint Brides Road bridge crossing Indian Creek.

RIVER MILE: 3.48

LATITUDE: 36.60380 **LONGTITUDE:** -76.22580

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at the confluence of the Indian River with the Northwest River.

RIVER MILE: 0.00

LATITUDE: 36.57240 **LONGTITUDE:** -76.16220

Segment begins at the Saint Brides Road bridge downstream to confluence Northwest R.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total Phosphorus	Natural Conditions
	Natural Conditions

SUMMARY:

Exceedances of D.O. standard recorded on Indian Creek (5BIND001.15) to assess this segment as partially supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. This area is hardwood swamp/wetlands where low D.O. levels can naturally occur. Exceedance of nutrient screening value for TP at above station is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the depressed dissolved oxygen concentrations and elevated total phosphorus is unknown, but is suspected to be naturally occurring.

The Indian Creek monitoring station is located at the Indian Creek Road bridge, in the Saint Brides area of Chesapeake. The land use in the watershed is mixed forested, agricultural production, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding residential /agricultural area. The specific source of the depressed dissolved oxygen concentrations and elevated TP is currently unknown, but believed to be naturally occurring.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Chesapeake, Virginia Beach, Cities of

STREAM NAME: Milldam Creek

HYDROLOGIC UNIT: 03010205

SEGMENT ID.: VAT-K41R_MLD01A00 **TMDL MAP ID:** VAT-K41R-02

SEGMENT SIZE: 3.29 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the headwaters of Blackwater Creek.

RIVER MILE: 3.29

LATITUDE: 36.57907 **LONGTITUDE:** -76.08000

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at the confluence of Blackwater Creek with the North Landing River.

RIVER MILE: 0.00

LATITUDE: 36.59748 **LONGTITUDE:** -76.04874

Segment from headwaters downstream to confluence with North Landing River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrients	Natural Conditions
	Unknown
Nutrients	Natural Conditions

SUMMARY:

Sufficient exceedances of Virginia's water quality standard for Dissolved Oxygen were recorded on Milldam Creek (5BMLD001.92) to assess this segment as partially supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. This is an area of hardwood swamp/wetlands where low dissolved oxygen levels can naturally occur. Sufficient exceedance of the nutrient screening value for total phosphorus at the above monitoring station is used to justify use of Best Professional Judgement to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Sufficient violations of Virginia's water quality standard for Fecal Coliform Bacteria were recorded at the above monitoring station to assess this segment as partially supporting of the Clean Water Act's Swimming Use Support Goal for the 2002 305(b) report. The cause of the depressed Dissolved Oxygen concentrations is currently unknown, but is suspected to be naturally occurring. The cause of the elevated total phosphorus is attributed to naturally occurring conditions. The cause of the Fecal Coliform bacteria standard violation is unknown.

The Milldam Creek monitoring station is located at the Route 190 (Blackwater Road) Bridge, in the Fentress area of Virginia Beach. The land use in the watershed is mixed forested, agricultural production, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding residential /agricultural area. This is an area of hardwood swamp/wetlands where low dissolved oxygen levels can naturally occur. The specific source of the enteric bacteria causing the elevated Fecal Coliform Bacteria levels is currently unknown. The specific source of the depressed dissolved oxygen concentrations is believed due to high organic content and stagnant flow conditions.

Additional monitoring is necessary to determine whether the impairment is not naturally occuring.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Chesapeake, City of

STREAM NAME: Albemarle Canal/North Landing River

HYDROLOGIC UNIT: 03010205

SEGMENT ID.: VAT-K41R_NLR01A00 **TMDL MAP ID:** VAT-K41R-03

SEGMENT SIZE: 11.84 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the Great Bridge, head of Albemarle & Chesapeake Canal.

RIVER MILE: 22.34

LATITUDE: 36.71990 **LONGTITUDE:** -76.24170

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends downstream at West Landing Rd, upstream of West Neck Creek.

RIVER MILE: 10.50

LATITUDE: 36.69360 **LONGTITUDE:** -76.06910

Segment from Great Bridge locks downstream to West Landing Rd.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrients	Natural Conditions

SUMMARY:

Sufficient exceedances of Virginia's water quality standard for Dissolved Oxygen were recorded at monitoring stations in the Albemarle & Chesapeake Canal (5ANLR013.61 & 5BNRL010.75) to assess this segment as partially supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. This is an area of hardwood swamp/wetlands where low dissolved oxygen levels can naturally occur. Sufficient exceedance of the nutrient screening value for total phosphorus at the above monitoring station is used to justify use of Best Professional Judgement to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the depressed Dissolved Oxygen concentrations is suspected to be naturally occurring and due to high organic content and stagnant conditions within the canal. The cause of the elevated total phosphorus is attributed to naturally occurring conditions.

The land use in the watershed is mixed agricultural , forested, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding forested/agricultural/residential area. This is an area of hardwood swamp/wetlands where low dissolved oxygen levels can naturally occur.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: West Neck Creek (Upper)

HYDROLOGIC UNIT: 03010205

SEGMENT ID.: VAT-K41R_WNC01A00 **TMDL MAP ID:** VAT-K41R-07

SEGMENT SIZE: 3.17 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the headwaters of West Neck Creek, near Shipps Corner.

RIVER MILE: 10.82

LATITUDE: 36.79381 **LONGTITUDE:** -76.07029

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at Princess Anne Road crossing of west Neck Creek.

RIVER MILE: 7.65

LATITUDE: 36.75587 **LONGTITUDE:** -76.03996

Segment from headwaters (Shipps Corner) to Princess Anne Road crossing.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrients	Natural Conditions
	Unknown
Nutrients	Unknown

SUMMARY:

Exceedances of standard for D.O. recorded @ (5BWNC010.02) to assess this segment as partially supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. This is an area of hardwood swamp/wetlands where low dissolved oxygen levels can naturally occur. Exceedance of the nutrient screening value for TP at above station used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Violations of standard for FC Bacteria recorded at above station to assess this segment as not supporting of the Clean Water Act's Swimming Use Support Goal for the 2002 305(b) report. Cause of the depressed D.O. is unknown, but may be naturally occurring. Cause of elevated TP is unknown. Cause of the FC bacteria is unknown.

The West Neck Creek monitoring station is located at Ships Corner Road Bridge over the creek in the City of Virginia Beach. The watershed receives inputs from storm water runoff associated with the surrounding residential /urban area. The specific source of the impairment is currently unknown.

Targeted monitoring is necessary to further delineate the extent of impairment and to characterize its causes and sources.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Chesapeake, Virginia Beach, Cities of

STREAM NAME: Blackwater Creek

HYDROLOGIC UNIT: 03010205

SEGMENT ID.: VAT-K41R_BKW01A00 **TMDL MAP ID:** VAT-K41R-01

SEGMENT SIZE: 4.04 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the headwaters of Blackwater Creek.

RIVER MILE: 4.04

LATITUDE: 36.61100 **LONGTITUDE:** -76.11180

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends at the confluence of Blackwater Creek with the North Landing River.

RIVER MILE: 0.00

LATITUDE: 36.59480 **LONGTITUDE:** -76.06030

Segment from headwaters downstream to confluence with North Landing River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrients	Natural Conditions

SUMMARY:

Exceedance of the nutrient screening value for TP at station (5BBKW002.50) is used to justify use of BPJ to evaluate this segment as threatened of the Clean Water Act's Fish Consumption Use Support Goal for the 2002 305(b) report. The cause of the elevated total phosphorus is attributed to naturally occurring conditions.

The land use in the watershed is mixed agricultural , forested, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding forested/agricultural/residential area.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Chesapeake, Virginia Beach, Cities of

STREAM NAME: North Landing River (Lower)

HYDROLOGIC UNIT: 03010205

SEGMENT ID.: VAT-K41R_NLR01C00 **TMDL MAP ID:** VAT-K41R-04

SEGMENT SIZE: 1 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - NA

UPSTREAM LIMIT:

DESCRIPTION: Segment begins 0.5 mi. upstream of confluence of Milldam Creek with North Landing River.

RIVER MILE: 2.61

LATITUDE: 36.58240 **LONGTITUDE:** -76.04800

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends 0.5 mi. downstream of confluence of Milldam Creek with North Landing River.

RIVER MILE: 1.61

LATITUDE: 36.57490 **LONGTITUDE:** -76.04220

Segment from 0.5 mi. upstream of Milldam Cr. To 0.5 mi. downstream of Milldam Cr.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Mercury	Unknown

SUMMARY:

Data collected for the toxic metal mercury in sediment indicated exceedance of the screening value. Best Professional Judgement is used to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report.

The cause of the elevated sediment mercury metal concentration is currently unknown.

The North Landing River monitoring station (5BNLR002.11) is located near the confluence of Milldam Creek with North Landing River. The land use in the watershed is mixed agricultural , forested, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding forested/agricultural/residential area. The specific source of the elevated sediment mercury concentration is currently unknown.

Additional monitoring is necessary to confirm impairment.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Chesapeake, Virginia Beach, Cities of

STREAM NAME: Pocaty River

HYDROLOGIC UNIT: 03010205

SEGMENT ID.: VAT-K41R_PCT01A00 **TMDL MAP ID:** VAT-K41R-05

SEGMENT SIZE: 6.61 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: Segment begins at the headwaters of Pocaty Creek.

RIVER MILE: 6.61

LATITUDE: 36.68023 **LONGTITUDE:** -76.15293

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends downstream at the confluence of Pocaty Creek with the North Landing River.

RIVER MILE: 0.00

LATITUDE: 36.67785 **LONGTITUDE:** -76.06976

Segment from headwaters downstream to confluence with North Landing River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrients	Natural Conditions
	Unknown
Nutrients	Natural Conditions

SUMMARY:

Sufficient exceedances of Virginia's water quality standard for Dissolved Oxygen were recorded on Pocaty Creek (5BPCT001.79) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. This is an area of hardwood swamp/wetlands where low dissolved oxygen levels can naturally occur. Sufficient exceedance of the nutrient screening value for total phosphorus at the above monitoring station is used to justify use of Best Professional Judgement to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Sufficient violations of Virginia's water quality standard for Fecal Coliform Bacteria were recorded at the above monitoring station to assess this segment as partially supporting of the Clean Water Act's Swimming Use Support Goal for the 2002 305(b) report. The cause of the depressed Dissolved Oxygen concentrations is currently unknown, but is suspected to be naturally occurring. The cause of the elevated total phosphorus is attributed to naturally occurring conditions. The cause of the Fecal Coliform bacteria standard violation is unknown.

The Pocaty River monitoring station is located at the Route 190 (Blackwater Road) Bridge, in the Fentress area of Virginia Beach. The land use in the watershed is mixed forested, agricultural production, and residential. The watershed potentially receives inputs from wetlands areas, residential sewage treatment systems, and storm water runoff associated with the surrounding residential /agricultural area. This is an area of hardwood swamp/wetlands where low dissolved oxygen levels can naturally occur. The specific source of the enteric bacteria causing the elevated Fecal Coliform Bacteria levels is currently unknown. The specific source of the depressed dissolved oxygen concentrations is believed due to high organic content and stagnant flow conditions.

Additional monitoring is necessary to determine whether the bacteria impairment is not naturally occuring.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Nawney Creek

HYDROLOGIC UNIT: 03010205

SEGMENT ID.: VAT-K42E_NWN01A00 **TMDL MAP ID:** VAT-K42E-01

SEGMENT SIZE: 0.2 - Sq. Mi.

INITIAL LISTING: 1996 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: Segment begins 0.08 mile upstream of Nawney road crossing of Nawney Creek.

RIVER MILE: 1.92

LATITUDE: 36.65332 **LONGTITUDE:** -76.01736

DOWNSTREAM LIMIT:

DESCRIPTION: Segment ends 0.92 mile down stream of Nawney road crossing of Nawney Creek.

RIVER MILE: 0.92

LATITUDE: 36.64688 **LONGTITUDE:** -76.00733

Segment extends 0.08 mile up and 0.92 mile down stream of Nawney road crossing of Nawney Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened, Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrients	Natural Conditions
	Unknown

SUMMARY:

THIS SEGMENT for Fecal Coliform IS PROPOSED FOR DELISTING, as it now shows full support (during the assessment period there were recorded only 5 exceedances out of 52 observations). Violations of the standard for Dissolved Oxygen recorded at station on Nawney Cr. (5BNWN001.84) to assess this segment as not supporting of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. Exceedance of the nutrient screening value at the above station is used to justify use of BPJ to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the dissolved oxygen standard violation is attributed to naturally occurring conditions.

The source of the low dissolved oxygen impairment is attributed to naturally occurring conditions. This is an area of hardwood swamp/wetlands where low dissolved oxygen levels can naturally occur.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: CHOWAN RIVER AND DISMAL SWAMP BASIN

CITY/COUNTY: Virginia Beach, City of

STREAM NAME: Nawney Creek

HYDROLOGIC UNIT: 03010205

SEGMENT ID.: VAT-K42E_NWN01B00 **TMDL MAP ID:** VAT-K42E-02

SEGMENT SIZE: 0.52 - Sq. Mi.

INITIAL LISTING: 1996 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: One- half mile upstream Nawney Cr.

RIVER MILE: 0.92

LATITUDE: 36.64688 **LONGTITUDE:** -76.00733

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Back Bay

RIVER MILE: 0.00

LATITUDE: 36.63523 **LONGTITUDE:** -75.99317

Segment begins one-half mile upstream of the Nawney Creek Road bridge crossing Nawney Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrients	Unknown
	Unknown

SUMMARY:

Violations of the FC bacteria standard at station 5BNWN000.00 to assess this segment as partially supporting of the Clean Water Act's Swimming Use Support Goal for the 2002 305(b) report. Exceedance of the nutrient screening value at the above station by use of Best Professional Judgement to evaluate this segment as threatened of the Clean Water Act's Aquatic Life Use Support Goal for the 2002 305(b) report. The cause of the FC bacteria standard violation is the presence of enteric bacteria.

The Nawney Cr. station is located at the confluence of Nawney Cr./ Back Bay (5BNWN000.00). The land use in the watershed is primarily agricultural and livestock production. Nearby farm fields are spray irrigated using effluent from animal rearing facilities. The watershed potentially receives inputs from residential sewage treatment systems, wetlands areas, and storm water runoff associated with the surrounding residential /agricultural area. The specific source of the enteric bacteria causing the Fecal Coliform Bacteria standard violations is currently unknown.